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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/647,367	08/25/2003	Tsutomu Yoneyama	5405-6	2146	
27799 7	7590 02/07/2006		EXAMINER		
	NTANI, LIEBERMA	SHAH, M	Shah, manish s		
551 FIFTH AV SUITE 1210	/ENUE		ART UNIT	PAPER NUMBER	
NEW YORK,	NY 10176	2853			

DATE MAILED: 02/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

• -		Application	No.	Applicant(s)				
Office Action Summary		10/647,367		YONEYAMA ET AL.				
		Examiner	Examiner A					
		Manish S. S	hah	2853				
	The MAILING DATE of this communication ap	ppears on the o	over sheet with the c	orrespondence ad	ldress			
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
2a) <u></u>	Responsive to communication(s) filed on <u>09 L</u> This action is <b>FINAL</b> . 2b) This since this application is in condition for allower closed in accordance with the practice under	is action is no ance except fo	n-final. or formal matters, pro		e merits is			
Dispositi	on of Claims							
5)⊠ 6)⊠ 7)□ 8)□	Claim(s) <u>8-13,15 and 33</u> is/are pending in the 4a) Of the above claim(s) is/are withdra Claim(s) <u>8-13 and 15</u> is/are allowed. Claim(s) <u>33</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from cons						
• •	on Papers							
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>								
Priority (	under 35 U.S.C. § 119							
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ⊠ All b) □ Some * c) □ None of:  1. ☑ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice 3) Infor	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 tr No(s)/Mail Date	8)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	O-152)			

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claim 33 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto et al. (# US 6,523,948).

Matsumoto et al. teaches:

- An ink jet recording head (23) that ejects UV curable ink.
- An UV light irradiation section for irradiating the ink (Fig. 19).
- A humidity detecting section (S2, figure: 1) for detecting the humidity around the recording medium.
- A controller (31, figure: 1) for controlling the irradiation of the UV light on the basis of the detected humidity. (See column: 12, line: 25-39, which discusses controlling output of drying units based upon humidity detected by humidity sensor, column: 13, line: 37-59, which discusses control of IR diodes based on humidity and column: 14, line: 39-56, which discusses control of UV light based on humidity.)
- The controller generates data for controlling the output of the UV lights, based upon the detected humidity. Matsumoto further discloses that the amount of irradiation

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the UV lights may be varied either by changing the intensity of the output or by changing the duty time (operation time) (column: 13, line: 51-55).

• The humidity sensor is provided at a distance capable of detecting humidity around the ink in a carrying direction of the recording medium. (Fig. 1 illustrates that the humidity sensor [S2] is disposed downstream of the print head [23])

Matsumoto teaches the claimed invention with the exception of:

• The controller controls the irradiation of the light so as to be higher in case the detected humidity is not less than predetermined humidity, and controls the irradiation of the light so as to be lower in the case the detected humidity is less than the predetermined humidity.

They meaning of the humidity is a moderate degree of wetness. So if you have more wetness obviously you need more drying time or curing time or high irradiation or high temperature to get the complete dry or complete curing.

However, Matsumoto teaches (column: 12, line: 30-40) that the controller controls the temperature according to humidity. It is obvious that if you have more humidity, you need higher irradiation or need longer time for drying or curing, and if you have less humidity, you need less irradiation or need less time for drying or curing.

## Allowable Subject Matter

2. Claims 8-13 &15 are allowed.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manish S. Shah whose telephone number is (571) 272-2152. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Manish S. Shah Primary Examiner Art Unit 2853

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